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AMENDMENTS TO THE SPECIFICATION

On Page 1, please add the following paragraph after the title, and before the heading "*TECHNICAL FIELD*":

CROSS-REFERENCE TO RELATED APPLICATION

This application is based upon and claims the benefit of priority from Japanese Patent Application No. 2004-028079, filed on February 4, 2004, the entire contents of which are incorporated herein by reference.

Please replace the Paragraph beginning on Line 18 of Page 3 with the following paragraph rewritten in amendment format:

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Non-patent document 5: "Low-Noise Optical Frequency Comb Generation Using Phase Modulator," 1st Microwave/Millimeter Wave Photonics (MWP) Research Meeting, The Institute of Electronics, Information and Communication Engineers, ~~MWP03-3~~ MWP03-4, 2003.

Please replace Paragraph [0022] beginning on Line 25 of Page 8 with the following paragraph rewritten in amendment format:

[0022]

A 17th invention is such that the mode-locked laser according to the first invention further includes: a CNR/intensity measuring part which detects a CNR or intensity of a beat note of the master laser light and a longitudinal mode included in optical output of the mode-

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Please replace Paragraph [0074] beginning on Line ~~5~~ 4 of Page 30 with the following paragraph rewritten in amendment format:

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[0074]

In the case where an optical signal modulated according to a periodic signal having the frequency f may be distorted in traveling through the optical fiber transmission line ~~201~~ 200 or 201, this embodiment makes it possible to avoid such distortion that might otherwise occur in the optical fiber transmission line ~~201~~ 200 or 201 by transmitting an optical signal that has been modulated according to a periodic signal having the lower frequency f/K.

Please replace Paragraph [0089] beginning on Line 7 of Page 35 with the following paragraph rewritten in amendment format:

[0089]

Inputting optical output of the mode-locked laser to the optical pulse compressor 4 increases the peak intensity and thereby allows the waveguided optical nonlinear medium 2 to generate many optical carriers. Where the degree of chirping of optical pulse train is high, a dispersive medium such as an optical fiber or a Bragg grating capable of canceling out chirping is used as the ~~pulse compressor optical carrier 4~~ optical pulse compressor 4. Where the degree of chirping of optical pulse train is low, a soliton effect or the like in an optical fiber is utilized.